

REMARKS

Applicants submit herewith an annotated Fig. 1, showing the proposed drawing corrections with red ink annotations. A nucleotide (T) has been added as shown on sheet 1A. Nucleotides 1444-1497 have been added to sheet 1B as shown. The nucleotide G has been added as shown on sheet 1B. As explained in the response filed November 9, 2004, support for the additions to Figure 1 is found in the original, informal drawings that were submitted with the parent application of the present case, namely U.S. Patent No. 09/568,225, filed on May 10, 2000, which was incorporated by reference in the present application. As they are fully supported by the original disclosure, the additions to the drawings do not add new matter. Additionally, adjustments have been made to pagination of Fig. 1 as indicated in the areas enclosed by brackets. These adjustments have been made to accommodate the appearance of Fig. 1 on three separate sheets. Accordingly, applicants respectfully request approval of the proposed drawing corrections to Fig. 1.

Applicants further submit herewith an annotated Fig. 2, showing the proposed drawing corrections with red ink annotations. The nucleotide numbering on sheet 2E has been corrected due to a typographical error. Accordingly, applicants respectfully request approval of the proposed drawing corrections to Fig. 2.

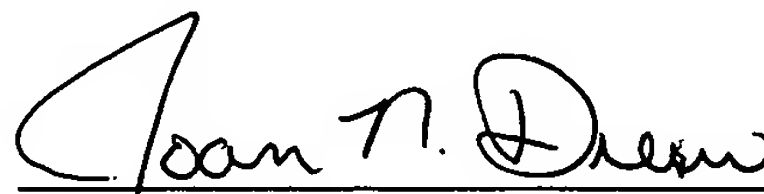
Finally, Applicants have enclosed clean versions of the Figs. 1 and 2 labeled "Replacement Sheet."

Applicants respectfully submit that the responses of November 12, 2004 and March 7, 2005 have been corrected herein.

If there is any fee due in connection with the filing of this Response, please charge the fee to our Deposit Account No. 03-0172.

Respectfully submitted,

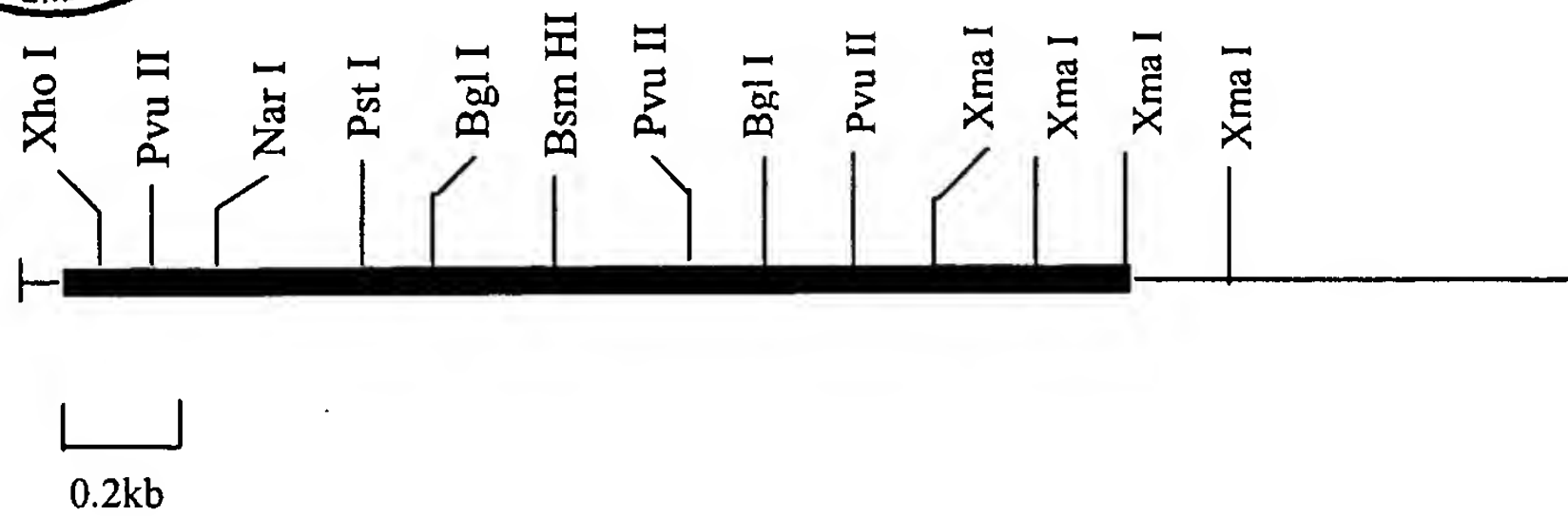
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## ANNOTATED SHEET

Fig. 1A



-12 39  
GG GCG GAC TCT AAA ATG AAT CCC GAT CTG GAC ACC GGC CAC AAC ACA TCA GCA  
M N P D L D T G H N T S A

93  
CCT GCC CAA TGG GGA GAG TTG AAA GAT GCC AAC TTC ACT GGC CCC AAC CAG ACC  
P A Q W G E L K D A N F T G P N Q T

147  
TCG AGC AAC TCC ACA CTG CCC CAG CTG GAC GTT ACC AGG GCC ATC TCT GTG GGC  
S S N S T L P Q L D V T R A I S V G

201  
CTG GTG CTG GGC GCC TTC ATC CTC TTT GCC ATT GTG GGC AAC ATC CTG GTC ATC  
L V L G A F I L F A I V G N I L V I

255  
CTG TCA GTG GCC TGC AAT CGG CAC CTG CGG ACG CCC ACC AAC TAC TTC ATT GTC  
L S V A C N R H L R T P T N Y F I V

309  
AAC CTG GCC ATT GCT GAC CTG CTG TTG AGT TTC ACA GTC CTG CCC TTC TCC GCT  
N L A I A D L L L S F T V L P F S A

363  
ACC CTA GAA GTG CTT GGC TAC TGG GTT CTG GGG CGC ATC TTC TGT GAC ATC TGG  
T L E V L G Y W V L G R I F C D I W

417  
GCA GCG GTG GAC GTC CTG TGC TGT ACG GCC TCC ATC CTG AGC CTA TGT GCC ATC  
A A V D V L C C T A S I L S L C A I

471  
TCC ATT GAT CGC TAC ATT GGG GTG CGC TAC TCT CTG CAG TAC CCC ACT CTG GTC  
S I D R Y I G V R Y S L O Y P T L V

525  
ACC CGC AGG AAG GCC ATC TTG GCA CTC CTC AGT GTG TGG GTT TTG TCC ACG GTC  
T R R K A I L A L L S V W V L S T V

579  
ATC TCC ATC GGG CCT CTC CTT GGA TGG AAA GAA CCA GCG CCC AAC GAC GAC AAG  
I S I G P L L G W K E P A P N D D K

633  
GAA TGC GGA GTC ACC GAA GAA CCC TTC TAT GCC CTC TTT TCC TCC CTG GGC TCC  
E C G V T E E P F Y A L F S S L G S

687  
TTC TAC ATC CCA CTC GCG GTC ATT CTG GTC ATG TAC TGC CGG GTC TAC ATC GTG  
F Y I P L A V I L V M Y C R V Y I V

741  
GCC AAG AGG ACC ACC AAG AAC CTG GAG GCT GGA GTC ATG AAG GAG ATG TCC AAC  
A K R T T K N L E A G V M K E M S N

Added

TCC	AAG	GAG	CTG	ACC	CTG	AGG	ATC	CAC	TCC	AAG	AAC	TTT	CAT	GAG	GAC	ACC	CTC
S	K	E	L	T	L	R	I	H	S	K	N	F	H	E	D	T	L
peptide 1																	
AGC	AGT	ACC	AAG	GCC	AAG	GGC	CAC	AAC	CCC	AGG	AGT	TCC	ATA	GCT	GTC	AAA	CTT
S	S	T	K	A	K	G	H	N	P	R	S	S	I	A	V	K	L
903																	
TTT	AAG	TTC	TCC	AGG	GAA	AAG	AAA	GCA	GCC	AAA	ACC	TTG	GGC	ATT	GTG	GTC	GGA
F	K	F	S	R	E	K	K	A	A	K	T	L	G	I	V	V	G
957																	
ATG	TTC	ATC	TTG	TGT	TGG	CTC	CCC	TTC	TTC	ATC	GCT	CTC	CCA	CTT	GGG	TCC	CTG
M	F	I	L	C	W	L	P	F	F	I	A	L	P	L	G	S	L
peptide 2																	
TTC	TCC	ACT	CTC	AAG	CCC	CCG	GAC	GCC	GTG	TTC	AAG	GTG	GTA	TTC	TGG	CTG	GGC
F	S	T	L	K	P	P	D	A	V	F	K	V	V	F	W	L	G
1065																	
TAC	TTC	AAC	AGC	TGC	CTG	AAC	CCC	ATC	ATC	TAC	CCG	TGC	TCC	AGC	AAG	GAG	TTC
Y	F	N	S	C	L	N	P	I	I	Y	P	C	S	S	K	E	F
1119																	
AAG	CGC	GCC	TTC	ATG	CGT	ATC	CTT	GGG	TGC	CAG	TGC	CGT	AGT	GGC	CGT	CGC	CGC
K	R	A	F	M	R	I	L	G	C	Q	C	R	S	G	R	R	R
1173																	
GCG	CGC	CGC	CGT	CGT	CTG	GGC	GCG	TGC	GCT	TAC	ACC	TAT	CGG	CCG	TGG	ACG	CGC
R	R	R	R	R	L	G	A	C	A	Y	T	Y	R	P	W	T	R
1227																	
GGC	GGC	TCG	CTG	GAG	CGA	TCG	CAG	TCG	GGG	AAG	GAC	TCC	CTG	GAC	GAC	AGC	GGC
G	G	S	L	E	R	S	Q	S	R	K	D	S	L	D	D	S	G
1281																	
AGC	TGC	ATG	AGT	GGC	AGC	CAG	AGG	ACC	CTG	CCC	TCG	GCG	TCG	CCC	AGC	CCG	GGC
S	C	M	S	G	S	Q	R	T	L	P	S	A	S	P	S	P	G
1335																	
TAC	CTG	GGT	CGC	GGA	GCG	CAG	CCA	CCA	CTG	GAG	CTG	TGC	GCC	TAC	CCC	GAA	TGG
Y	L	G	R	G	A	Q	P	P	L	E	L	C	A	Y	P	E	W
1389																	
AAA	TCC	GGG	GCT	CTG	CTC	AGT	CTG	CCA	GAG	CCT	CCG	GGT	CGC	CGC	GGT	CGC	CTC
K	S	G	A	L	L	S	L	P	E	P	P	S	R	R	G	R	L
1443																	
GAC	TCT	GGG	CCC	CTC	TTC	ACT	TTC	AAG	CTC	TTG	GGA	GAG	CCG	GAG	AGC	CCG	GGC
D	S	G	P	L	F	T	F	K	L	L	G	E	P	E	S	P	G
1497																	
ACC	GAG	GGC	GAT	GCC	AGC	AAT	GGG	GGC	TGC	GAC	GCA	ACG	ACC	GAC	CTG	GCC	AAT
T	E	G	D	A	S	N	G	G	C	D	A	T	T	D	L	A	N
1551																	
GGG	CAG	CCC	GGT	TTC	AAG	AGC	AAC	ATG	CCT	CTG	GCA	CCC	GGG	CAC	TTT	TAG	GGT
G	Q	P	G	F	K	S	N	M	P	L	A	P	G	H	F		
peptide 3																	
CCC	TTT	TCT	TTC	CCC	CAC	ACA	CAC	CCC	AGG	GGG	GAG	GAC	ACC	ATT	GTG	GGG	GGC
1605																	
GGG	GGC	ATG	GGG	GGG	AGT	GTC	AGC	CCC	GGG	TAG	ACA	CAG	GGT	CGC	AAG	GGT	ACA
1659																	
AGG	GGG	GAG	GGG	GGC	GGG	GAG	AGG	GGC	AGC	TGC	TTT	TCT	GGC	AGG	GGC	ATG	GCT
1713																	
GCC	AGG	TAC	AGC	GGA	GAG	CTG	GCT	GCG	CAT	GCT	GAG	AGC	CTG	GGG	ACC	CAC	CCC
1767																	
CAA	CGC	TGG	CCG	GGA	CTT	AAG	TCT	CTC	TCT	TCT	CTC	TCT	CTG	TAT	ATA	TAT	AAA
1821																	
GAG	TCC	CTC	TAT	ACG	TAT	TTA	TCT	GTG	GGT	ACA	CGT	GCG	TGT	GTC	TGT	GCG	GTG
1875																	

**ANNOTATED SHEET**

Fig. 1C

*Repaginated*

{ AAC GTG TGG GCT GCA TGG ATG TGT GTT GGG GGC CTG CCC ACT TGC GCG TGC TGG 1929  
GGC AGA GCG AGT GTG TGC CCT GGC AAT GTC AGG TTT GTT GTT TGT CTC TTG ACT 1983  
TGT ACC TCT CAA GCC CCT CCT TGT TCT CTG GTC AAT GCT GGC ATT TTG ATG GGG 2037  
TTG GAA ACC AAG TCA GAT ATT AAA AAT CAT TTC TCG TGA AAA AAA AAA AAA 2091

**ANNOTATED SHEET (as shown on sheet 2E)**

Fig. 2A

	3		9		15		21		27		33		39		45
1	TCG	ACT	GCC	CAG	TGC	CCT	TTG	CCT	CTG	CAC	CAT	CTC	CAT	GAT	CAA
	AGC	TGA	CGG	GTC	ACG	GGA	AAC	GGA	GAC	GTG	GTA	GAG	GTA	CTA	GTT
46	TGA	GCT	AAG	GTA	CCA	GGA	GCT	CCA	ACA	GGT	TCA	CAC	TAC	CAC	AAA
	ACT	CGA	TTC	CAT	GGT	CCT	CGA	GGT	TGT	CCA	AGT	GTG	ATG	GTG	TTT
91	CCT	CAA	AAA	TAG	GCA	TCT	CTT	ATG	TTT	AAA	TCT	CTA	AAG	GCA	GCT
	GGA	GTT	TTT	ATC	CGT	AGA	GAA	TAC	AAA	TTT	AGA	GAT	TTC	CGT	CGA
136	TAG	GTA	AGA	TAG	TTG	AAA	TGA	GGG	CAG	GGA	CTG	TTT	TCA	AAG	CTA
	ATC	CAT	TCT	ATC	AAC	TTT	ACT	CCC	GTC	CCT	GAC	AAA	AGT	TCC	GAT
181	TCT	GAA	TCA	TTG	TTT	GTT	TGT	TTG	TTT	GTT	TGT	TAT	CTC	AGA	GAA
	AGA	CTT	AGT	AAC	AAA	CAA	ACA	AAC	AAA	CAA	ACA	ATA	GAG	TCT	CTT
226	ACT	CCT	TAG	AAT	TGT	ATA	TTT	TGT	GCA	ACT	GGA	GAG	CTT	GTG	CCA
	TGA	GGA	ATC	TTA	ACA	TAT	AAA	ACA	CGT	TGA	CCT	CTC	GAA	CAC	GGT
271	TTT	TTA	ATA	GGA	GAT	TAA	GGA	CCT	TAA	ACG	TAT	AGT	GGG	TGA	TAC
	AAA	AAT	TAT	CCT	CTA	ATT	CCT	GGA	ATT	TGC	ATA	TCA	CCC	ACT	ATG
316	ATG	CTT	GTA	ACA	ACA	ACA	CTA	AGA	GGC	TGG	GAA	AAG	AGG	AAG	ATT
	TAC	GAA	CAT	TGT	TGT	TGT	GAT	TCT	CCG	ACC	CTT	TTC	TCC	TTC	TAA
361	ATC	ATG	ATT	TTG	GGG	CCA	GCC	TGG	GCT	AAT	AAT	AAG	TTC	TAG	GCC
	TAG	TAC	TAA	AAC	CCC	GGT	CGG	ACC	CGA	TTA	TTA	TTC	AAG	ATC	CGG
406	AGC	CTA	GGC	CCA	AGT	AAG	ACC	ATC	TCT	CAA	ACA	AGC	AAT	CAA	AGG
	TCG	GAT	CCG	GGT	TCA	TTC	TGG	TAG	AGA	GTT	TGT	TCG	TTA	GTT	TCC
451	CTG	GAG	AGT	TGT	CTC	AGC	AGA	TAA	GGG	CAT	TTG	GTG	CTC	TTG	CAG
	GAC	CTC	TCA	ACA	GAG	TCG	TCT	ATT	CCC	GTA	AAC	CAC	GAG	AAC	GTC
496	AGG	ACT	CGG	GTC	CAA	TTC	CCA	CCA	CCC	AAA	TGG	TGG	CTC	ACA	ACC
	TCC	TGA	GCC	CAG	GTT	AAG	GGT	GGT	GGG	TTT	ACC	ACC	GAG	TGT	TGG
541	ATC	CCA	ACT	TCA	GCT	TCA	GAG	GAC	CCC	ATG	CCC	ATC	TGT	CAA	CTT
	TAG	GGT	TGA	AGT	CGA	AGT	CTC	CTG	GGG	TAC	GGG	TAG	ACA	GTT	GAA
586	TCA	CAG	GCA	GCA	AAG	CAG	GCA	ATG	AAT	GTA	ATA	CTC	ACA	CGC	AAA
	AGT	GTC	CGT	CGT	TTC	GTC	CGT	TAC	TTA	CAT	TAT	GAG	TGT	GCG	TTT
631	AAA	AAA	AAA	AAA	AAA	AAA	AAG	ACA	GTA	AAT	TAA	AAG	AAA	CAA	ATA
	TTT	TTT	TTT	TTT	TTT	TTT	TTC	TGT	CAT	TTA	ATT	TTC	TTT	GTT	TAT
676	AAC	AAA	AAA	CGT	AAT	CTT	CTC	CAA	AAA	GTA	CAA	GCA	AAA	AGA	CTT
	TTG	TTT	TTT	GCA	TTA	GAA	GAG	GTT	TTT	CAT	GTT	CGT	TTT	TCT	GAA

**ANNOTATED SHEET (as shown on sheet 2E)**

Fig. 2B

721 CAA AAG CCC AAC TTT AGG CTG AAG AAC TTG CAC AGG AAC CGC CTT  
GTT TTC GGG TTG AAA TCC GAC TTC TTG AAC GTG TCC TTG GCG GAA

766 GCA TGG CCC CTG CTT CCT TGC CCC TTA ATC AAA ATA CAG CGA CTA  
CGT ACC GGG GAC GAA GGA ACG GGG AAT TAG TTT TAT GTC GCT GAT

811 TCA AAA GCA GAA ATT AGA AGC CTG GGC CAT GGC TTG TGG ACT GGA  
AGT TTT CGT CTT TAA TCT TCG GAC CCG GTA CCG AAC ACC TGA CCT

856 AGA AAT GGG TAT CAG GTG TCT CCT TGC AAT TCA GCA GCC ACT GCC  
TCT TTA CCC ATA GTC CAC AGA GGA ACG TTA AGT CGT CGG TGA CGG

901 CTG TCC CCT GCC TCA TGT CAC TAG CAT ATG ACT AAC TCT CTG ATC  
GAC AGG GGA CGG AGT ACA GTG ATC GTA TAC TGA TTG AGA GAC TAG

946 TAC TGT TTT CTC GTG TGT CCA CAG AGA GCA GTG ATG CCT CTC TCT  
ATG ACA AAA GAG CAC ACA GGT GTC TCT CGT CAC TAC GGA GAG AGA

991 CAA AGA CTT GTT AAA GAA AAA TAA AAG AAA ATA AGT AAG CTG GGT  
GTT TCT GAA CAA TTT CTT TTT ATT TTC TTT TAT TCA TTC GAC CCA

1036 GTG GTG TCT TAT GCT TGT AAT CCA AGC ACT GGG GAG GTG GGG GCC  
CAC CAC AGA ATA CGA ACA TTA GGT TCG TGA CCC CTC CAC CCC CGG

1081 AAC GGA TTT TGG GGT TTG GGA CAA TAT TGG TCT GCA TAG TGA GCT  
TTG CCT AAA ACC CCA AAC CCT GTT ATA ACC AGA CGT ATC ACT CGA

1126 CAA GAC CAG TGT GAG CTA CAC AGC AAG AAA AGG GAA GAG AAG AGA  
GTT CTG GTC ACA CTC GAT GTG TCG TTC TTT TCC CTT CTC TTC TCT

1171 AGA GAA GAG AAG AGA AGA GAG GAG AGG AGA GGA GAG GAG AGG AGA  
TCT CTT CTC TTC TCT TCT CTC CTC TCC TCT CCT CTC CTC TCC TCT

1216 GAG AGA GGA GAG GAG AGG AGA GGA GAG GAG AGG AGG GAG AGG AGA  
CTC TCT CCT CTC CTC TCC TCT CCT CTC CTC TCC TCC CTC TCC TCT

1261 GGA GGG GAG AGA AAT AAG TAA ATG TTT GAT GAA CAG TAG GAG CTC  
CCT CCC CTC TCT TTA TTC ATT TAC AAA CTA CTT GTC ATC CTC GAG

1306 AGC AAA TGT GGG TTC CTT CCC AGT AGC ACT AAC TTG AGC CCC AAA  
TCG TTT ACA CCC AAG GAA GGG TCA TCG TGA TTG AAC TCG GGG TTT

1351 ATG AGC CAT TTA AAA AAA AAG CCC AAG TTA TAA CAT TTA CTC TAT  
TAC TCG GTA AAT TTT TTT TTC GGG TTC AAT ATT GTA AAT GAG ATA

1396 CCC CTA TTT TGC TCC TAT AGA AAC GGT GAC TCT TCT ATG GCT CAG  
GGG GAT AAA ACG AGG ATA TCT TTG CCA CTG AGA AGA TAC CGA GTC

1441 TAC TCA GCA CTA GAA TAA GGA AAC CCA GTA ATG ACA TTC AAC TCC  
ATG AGT CGT GAT CTT ATT CCT TTG GGT CAT TAC TGT AAG TTG AGG



**ANNOTATED SHEET (as shown on sheet 2E)**

Fig. 2C

1486	AAC	TCA	CCC	TTC	CTC	TCC	TCA	ATA	GGC	ATA	TGT	ACT	TGA	AAA	AAA
	TTG	AGT	GGG	AAG	GAG	AGG	AGT	TAT	CCG	TAT	ACA	TGA	ACT	TTT	TTT
1531	CGG	CTC	AAC	TCC	CTT	ATC	ACA	CGG	GTC	CCA	TCC	TCA	AAA	CAG	AAA
	GCC	GAG	TTG	AGG	GAA	TAG	TGT	GCC	CAG	GGT	AGG	AGT	TTT	GTC	TTT
1576	TCA	AAA	TGA	GAC	TAG	TTC	TCT	CAT	CAA	GTC	GGG	AGA	AAA	GGC	AGC
	AGT	TTT	ACT	CTG	ATC	AAG	AGA	GTA	GTT	CAG	CCC	TCT	TTT	CCG	TCG
1621	ATG	AAC	GTA	GCA	CAT	GGT	CTA	GCA	TCT	AAG	TAT	TGG	GAG	ACA	GAG
	TAC	TTG	CAT	CGT	GTA	CCA	GAT	CGT	AGA	TTC	ATA	ACC	CTC	TGT	CTC
1666	AAT	CTT	GAG	TTC	AAA	ACC	AAC	CTG	AAG	ACC	TTC	TTT	CTT	TTT	TTT
	TTA	GAA	CTC	AAG	TTT	TGG	TTG	GAC	TTC	TGG	AAG	AAA	GAA	AAA	AAA
1711	TTT	TTT	TTT	TTT	TTT	TTT	TGA	AGA	CCT	TCT	TTC	TAA	AAA	CAA	ACA
	AAA	AAA	AAA	AAA	AAA	AAA	ACT	TCT	GGA	AGA	AAG	ATT	TTT	GTT	TGT
1756	AAC	AAA	CAA	ACA	AAC	AAG	AAA	ATT	CTT	CCC	TGG	TTT	GAC	TTT	TTT
	TTG	TTT	GTT	TGT	TTG	TTC	TTT	TAA	GAA	GGG	ACC	AAA	CTG	AAA	AAA
1801	CTT	CTT	CCT	TTT	TGT	AAT	TAC	CCA	CCT	CTG	GAA	ATA	GGG	TTT	GTA
	GAA	GAA	GGA	AAA	ACA	TTA	ATG	GGT	GGA	GAC	CTT	TAT	CCC	AAA	CAT
1846	GCC	TAA	TAG	CCT	ACA	TGT	ATA	CAA	GGC	AAT	ACA	AGA	AAA	GAG	CCA
	CGG	ATT	ATC	GGA	TGT	ACA	TAT	GTT	CCG	TTA	TGT	TCT	TTT	CTG	GGT
1891	ACA	GGC	AAG	ACC	CCC	CCC	CCC	AAG	TCC	CTT	CCC	CAG	GAT	TTG	GCA
	TGT	CCG	TTC	TGG	GGG	GGG	GGG	TTC	AGG	GAA	GGG	GTC	CTA	AAC	CGT
1936	ATC	AGT	CCT	CAC	TCT	CTA	CTC	CCA	GAG	ATA	CAA	CTA	GCT	CCC	TCT
	TAG	TCA	GGA	GTG	AGA	GAT	GAG	GGT	CTC	TAT	GTT	GAT	CGA	GGG	AGA
1981	CAC	CCT	TCC	CTC	CCT	TCC	TCC	CTC	CTT	CCC	TCC	TTC	CCT	CCT	TCC
	GTG	GGA	AGG	GAG	GGA	AGG	AGG	GAG	GAA	GGG	AGG	AAG	GGA	GGA	AGG
2026	CTC	CTT	CCC	TCC	CTC	CCT	CCT	CCC	TCC	TTC	CCT	CCC	TCC	CTC	AAC
	GAG	GAA	GGG	AGG	GAG	GGA	GGA	GGG	AGG	AAG	GGA	GGG	AGG	GAG	TTG
2071	TAT	CTC	TTT	TAG	TGA	CAA	CCC	CAA	GCC	CCT	TCT	TAA	AAT	GTC	AAG
	ATA	GAG	AAA	ATC	ACT	GTT	GGG	GTT	CGG	GGA	AGA	ATT	TTA	CAG	TTC
2116	TTC	AGC	CTA	GAG	ATG	CTG	CTC	ACT	TGG	TAG	AGT	ATG	TGC	TTG	CCT
	AAG	TCG	GAT	CTC	TAC	GAC	GAG	TGA	ACC	ATC	TCA	TAC	ACG	AAC	GGA
2161	AGA	ATG	CAC	GAA	GCC	CTG	AAT	TCC	ATC	CCC	AGT	ATC	AAA	TAA	ACC
	TCT	TAC	GTG	CTT	CGG	GAC	TTA	AGG	TAG	GGG	TCA	TAG	TTT	ATT	TGG
2206	AAC	CAC	GGC	GGT	ACA	TGC	TTG	TAA	TTC	CAG	CAC	TCA	GGA	GGT	GGC
	TTG	GTG	CCG	CCA	TGT	ACG	AAC	ATT	AAG	GTC	GTG	AGT	CCT	CCA	CCG

**ANNOTATED SHEET (as shown on sheet 2E)**

Fig. 2D

2251 CAT AGG AAA ATC AAG AGT TCA AAG GTA TTC TTG TGT TAT ACA GTG  
GTA TCC TTT TAG TTC TCA AGT TTC CAT AAG AAC ACA ATA TGT CAC

2296 AGC TGG AGG GCA ACC TGA GCT ACA TCA TAC TCT GTC ATT AAA AAA  
TCG ACC TCC CGT TGG ACT CGA TGT AGT ATG AGA CAG TAA TTT TTT

2341 AAA AAA TCC AAT TCA TAT TCT TCC ATA CCC TGG TTG CAT TTC TCT  
TTT TTT AGG TTA AGT ATA AGA AGG TAT GGG ACC AAC GTA AAG AGA

2386 GTC CTC AAT TAA TCT TCT CCT AAA CTC CTG TCA TTA GAT GTC TCG  
CAG GAG TTA ATT AGA AGA GGA TTT GAG GAC AGT AAT CTA CAG AGC

2431 CTT CAG ATT TTG CTT GTT TGA TAA GCT TCC ACT TGC CGG TCA GGA  
GAA GTC TAA AAC GAA CAA ACT ATT CGA AGG TGA ACG GCC AGT CCT

2476 ATC TGG GTA CCC TTC TAA CTG TTG GAG AAC AGT GCC TAG AAT GGA  
TAG ACC CAT GGG AAG ATT GAC AAC CTC TTG TCA CGG ATC TTA CCT

2521 GCC ACT GGC CTG GAG GTG GAC ATT AAC AAT CCA CTG AAG GAA TGT  
CGG TGA CCG GAC CTC CAC CTG TAA TTG TTA GGT GAC TTC CTT ACA

2566 GTG CAG GGA ATA ACT GAA CGA ATG AAT GAG CAA CAG AAG TTT CTA  
CAC GTC CCT TAT TGA CTT GCT TAC TTA CTC GTT GTC TTC AAA GAT

2611 GGT TTT ATC AAG GCC AAA GAG GTT GCA AGG GGG AAC TAA AGT ATA  
CCA AAA TAG TTC CGG TTT CTC CAA CGT TCC CCC TTG ATT TCA TAT

2656 GCG CTG GTC TCA GAT GTG ACT CAA GTC TCT GTC ACC TGC CTA ACG  
GCG GAC CAG AGT CTA CAC TGA GTT CAG AGA CAG TGG ACG GAT TGC

2701 CAG GGA TTT TCT TCC TTT TGT AGA AGC CAG TTG TGT AGA AGT TGC  
GTC CCT AAA AGA AGG AAA ACA TCT TCG GTC AAC ACA TCT TCA ACG

2746 ACA TCT CTC TGA ACC CAT GGC TTG ACT CCA GGA GCC CCC ATT AGA  
TGT AGA GAG ACT TGG GTA CCG AAC TGA GGT CCT CGG GGG TAA TCT

2791 GGT AAG CAT CCC CAC CCT ACC TTT TAA CTG AAG CGT GAA CAG GGG  
CCA TTC GTA GGG GTG GGA TGG AAA ATT GAC TTC GCA CTT GTC CCC

2836 GAA AAA ATA ATC CCA GCG GGC CCC CTG GGG TGT ATG AAC CGG GAT  
CTT TTT TAT TAG GGT CGC CCG GGG GAC CCC ACA TAC TTG GCC CTA

2881 GCC CAC ACC CGG ATC CCC TGC TCT GCT CCC CGC CCC ATC CCC GCA  
CGG GTG TGG GCC TAG GGG ACG AGA CGA GGG GCG GGG TAG GGG CGT

2926 GAG GGA GCG GTG CCG GGC GCG GCA GGT CTC CAA GCC GAC TAG GCT  
CTC CCT CGC CAC GGC CCG CGC CGT CCA GAG GTT CGG CTG ATC CGA

2971 GGC GCT GGC GTC GGG GCT GCG CTC CTT GGC TGG ACC CGC ATT GCC  
CCG CGA CCG CAG CCC CGA CGC GAG GAA CCG ACC TGG GCG TAA CGG



## ANNOTATED SHEET (as shown on sheet 2E)

Fig. 2E

3016 CCC TAG TGC CGC ACA GAG TCA GGG CGC CCG GGC TTC CCC GCC TGA  
GGG ATC ACG GCG TGT CTC AGT CCC GCG GGC CCG AAG GGG CGG ACT

3061 TGT CAC CGC CGT GCA GTC AGC CCA GAG GCG GCT CAT TGA AAG CAG  
ACA GTG GCG GCA CGT CAG TCG GGT CTC CGC CGA GTA ACT TTC GTC

renumber from 3151  
(3106) ACC CGC CGC GGG CCG GGC ACA GCC GGG CAC CCC CGG CCC GGC GCC  
TGG GCG GCG GCC GGC CCG TGT CGG CCC GTG GGG GCC GGG CCG CGG

renumber from 3196  
(3151) GCG TCC TCC CCG CGC TCC CGC GCC AGC CCG GCC AGG CGC GCC TGA  
GCG AGG AGG GGC GCG AGG GCG CGG TCG GGC CGG TCC GCG CGG ACT

renumber from 3241  
(3196) CGT GGA CCA TTA AAC TTG GAG CTC CCG CCT CGT CCC CTC TCT CCT  
GCA CCT GGT AAT TTG AAC CTC GAC GGC GGA GCA GGG GAG AGA GGA

Seq. # 2 sense →

renumber from 3286  
(3241) CCT CCT CCC TCT GAC AGG CGA GCG AGC CGC TGG GTG CAG GCA GGC  
GGA GGA GGG AGA CTG TCC GCT CGC TCG GCG ACC CAC GTC CTT CCG

renumber from 3331  
(3286) GAG GTG CTG CCG GGC TAG GCT GCC CGG GGG AGA TGA CTT CTC GCC  
CTG CAC GAC GGC CCG ATC CGA CGG GCC CCC TCT ACT GAA GAG CGG

Promoter Seq. # 1 sense →

renumber from 3376  
(3331) AGG AGG ACG CCT CTG GAA AGA AGA CCA CGG AGG GAG CAA AGT TTC  
TCC TCC TGC GGA GAC CTT TCT TCT GGT GCC TCC CTC GTT TCA AAG

renumber from 3421  
(3376) AGG GCA GCT GAG GAG CTT TGG TCG CAG CCC TTC CGA GCC CAA TCT  
TCC CGT CGA CTC CTC GAA ACC AGC GTC GGG AAG GCT CGG GTT AGA

PVU II

renumber from 3466  
(3421) CCT CCC TGG CTA TGG AGG GCG GAC TTT AAA ATG  
GGA GGG ACC GAT ACC TCC CGC CTG AAA TTT TAC